

Title (en)

METHOD FOR OPERATING AN ELECTRICAL MACHINE AND DEVICE FOR CARRYING OUT SAID METHOD

Title (de)

VERFAHREN ZUM BETREIBEN EINER ELEKTROMASCHINE UND VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ POUR FAIRE FONCTIONNER UNE MACHINE ÉLECTRIQUE ET DISPOSITIF DESTINÉ À LA RÉALISATION DU PROCÉDÉ

Publication

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Application

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Abstract (en)

[origin: WO2010112153A2] The invention relates to a method for operating an electrical machine, especially a separately excited synchronous machine having an additional squirrel cage. The electrical machine comprises a rotor which is mobile relative to a stator winding, especially a rotatably mounted rotor, the rotor especially having an excitation winding and/or a squirrel cage. A unit supplying the electrical machine and especially having an inverter controlled by an electronic control unit, provides a stator voltage space vector and determines a stator current space vector. The stator current space vector so determined is controlled towards a rated value when the rotor is below a critical speed, especially the rate of the stator current space vector determined is controlled towards a rated value for the rate and the direction and/or speed of the stator current space vector is controlled towards a corresponding rated value for the direction and/or speed.

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